

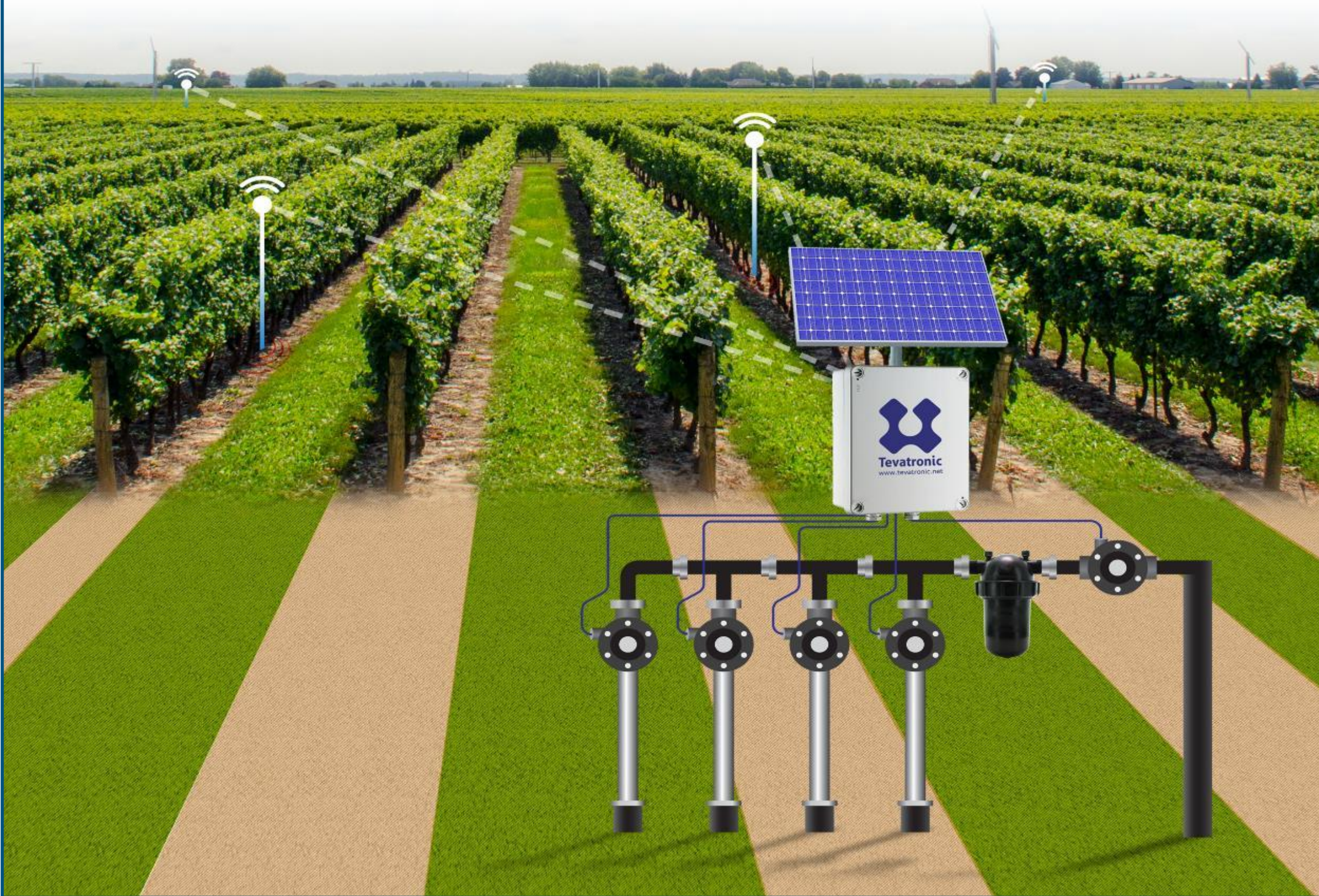


Helping farmers
save water and
increase yield

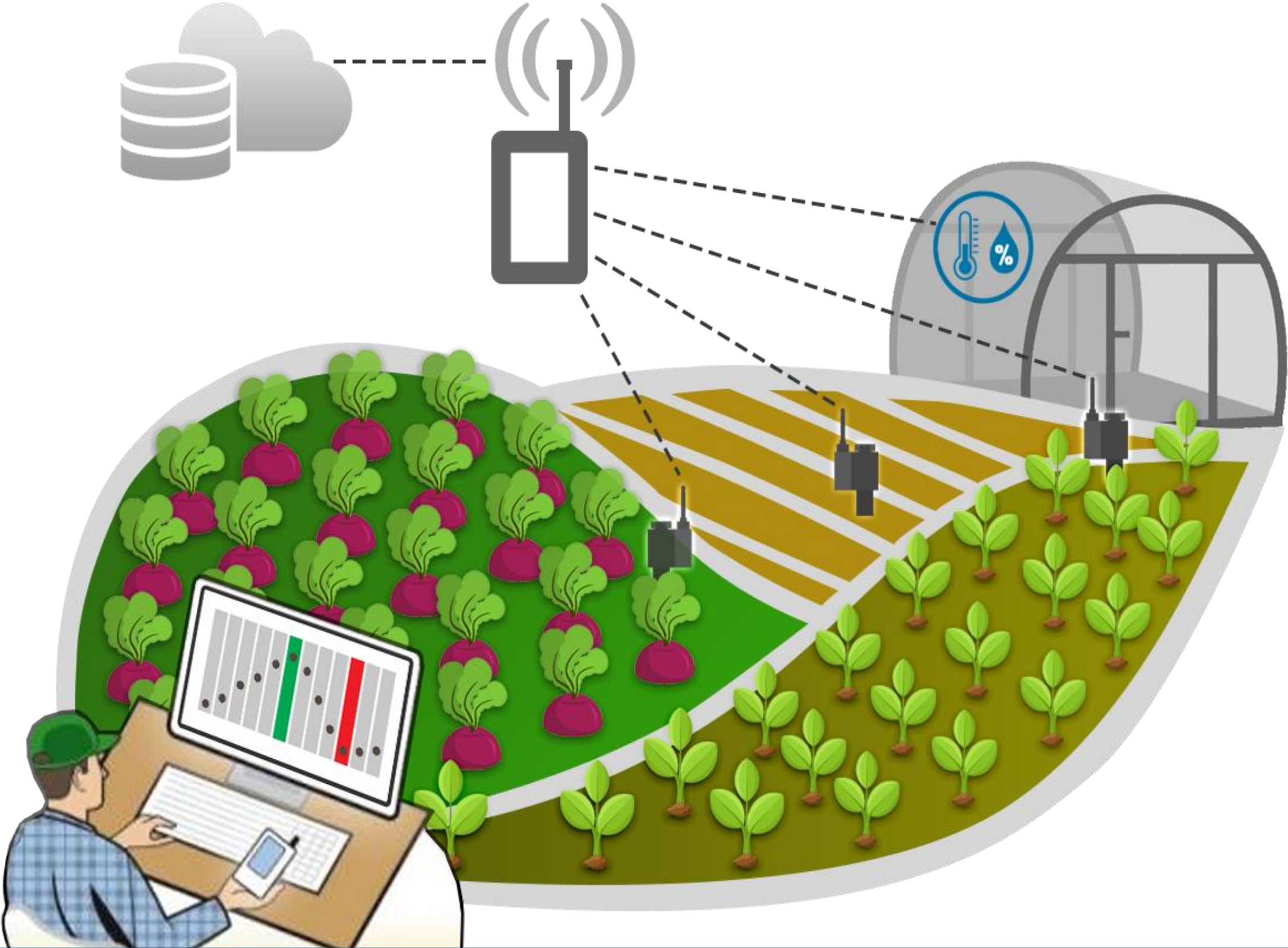


Oleg Korol
CEO of Tevatronic LTD.

SMART IRRIGATION CONTROL



DECISION SUPPORT SYSTEM



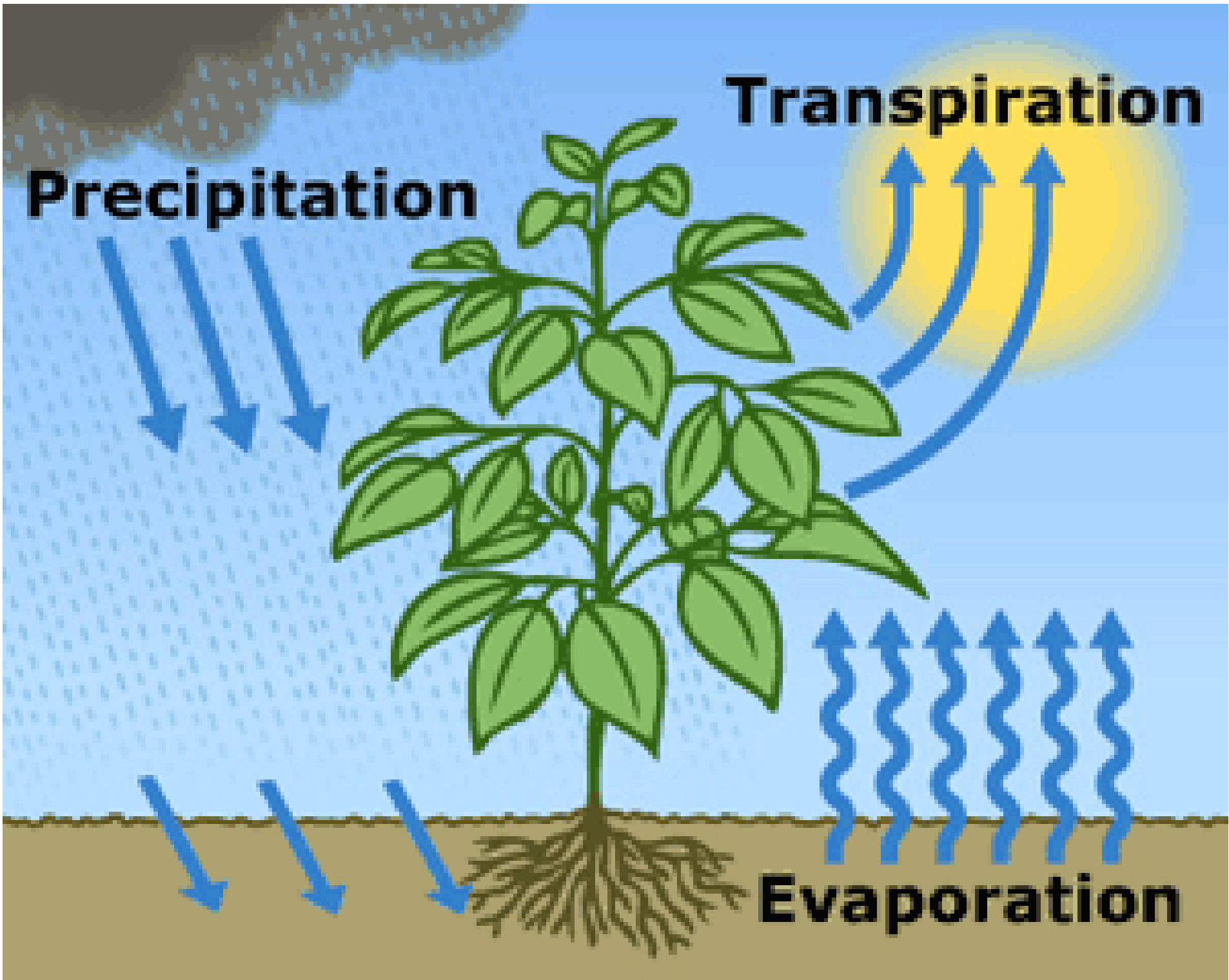
ABOUT TEVATRONIC

Incorporated in 2012
2 Granted Patents
8 employees full time
Systems sold to 11 countries

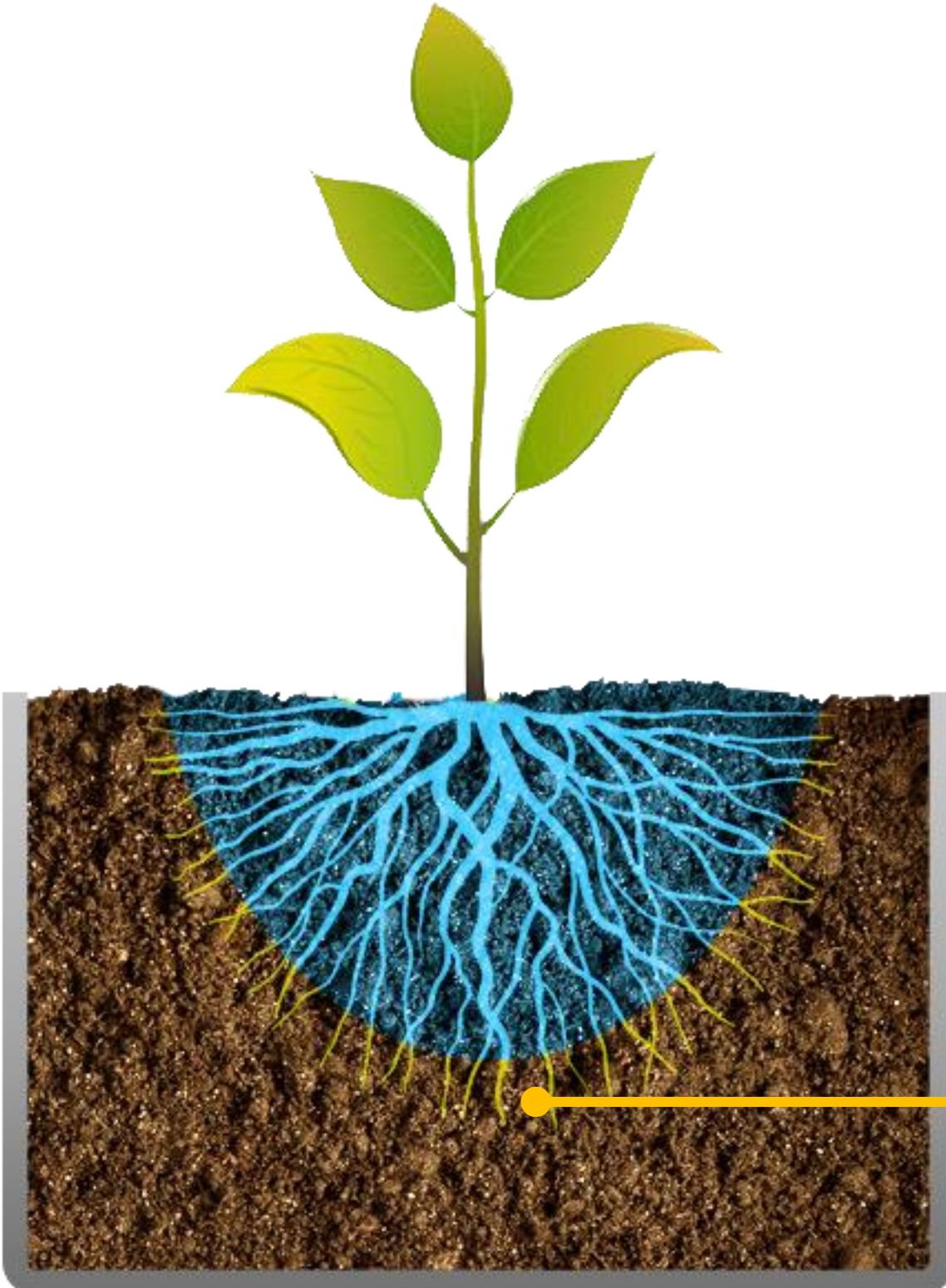


WHAT IS PRECISE IRRIGATION?

Demand Based Irrigation

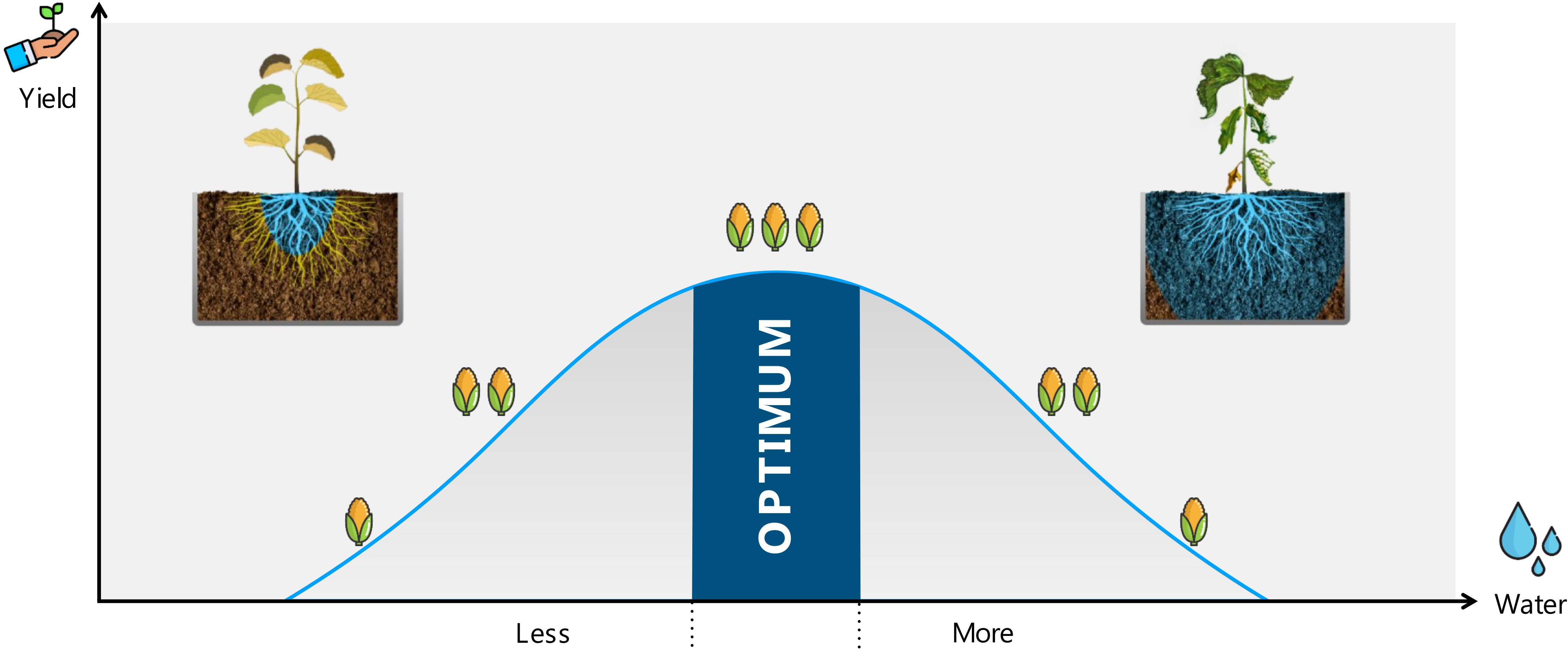


Active root system level irrigation



Maximum water up taking depth

COMMON IRRIGATION MISTAKES



PROGRESSIVE FARMING

Progressive farmers are using various internet connected sensors.

Connected sensors throw off huge volumes of data that are useless unless structured, stored, and analyzed in a way that drives decision making.



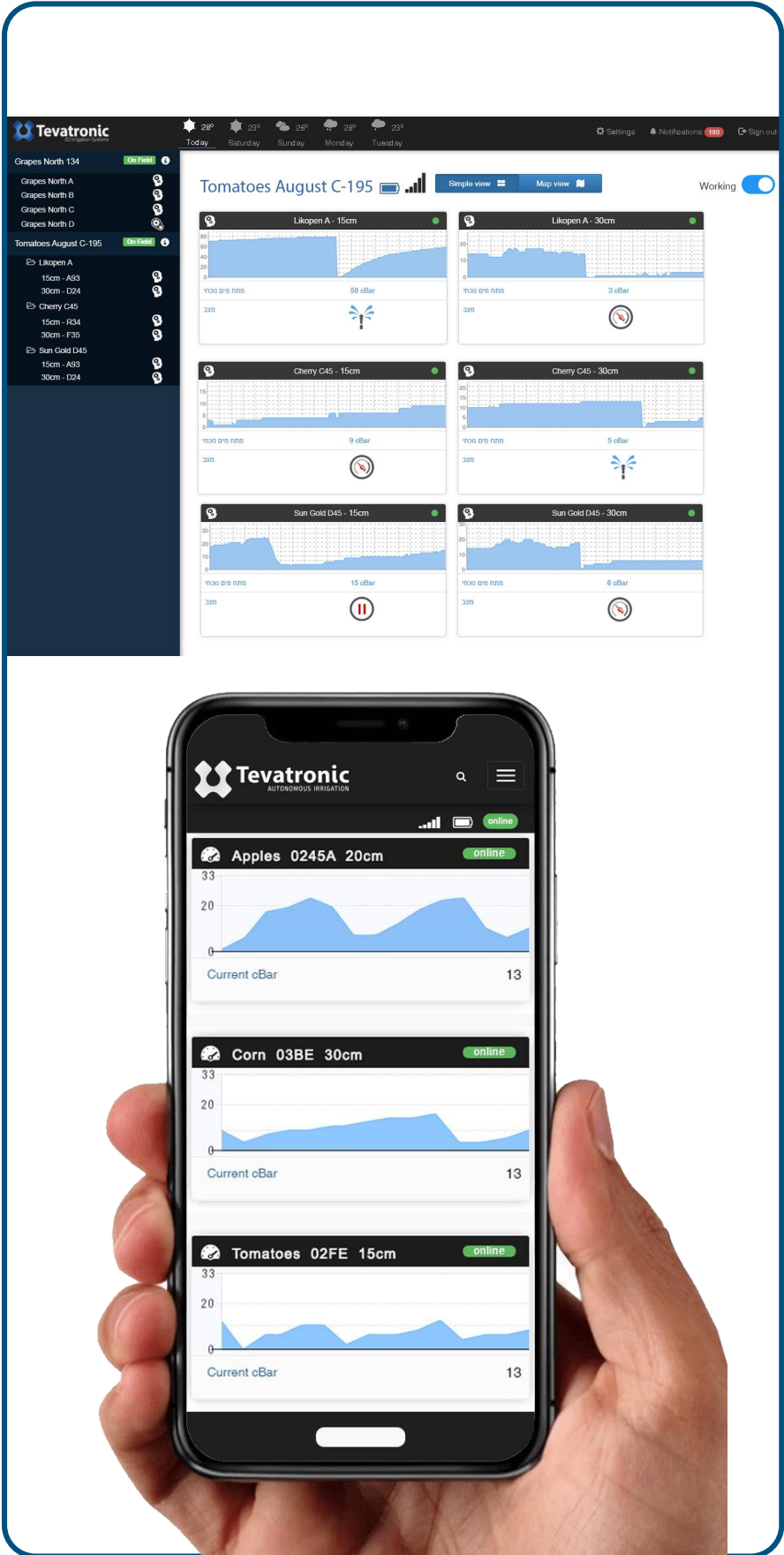
DECISION SUPPORT



WIRELESS SENSORS



CELLULAR GATEWAY



ONLINE GUI

“AUTONOMOUS” IRRIGATION CONTROL



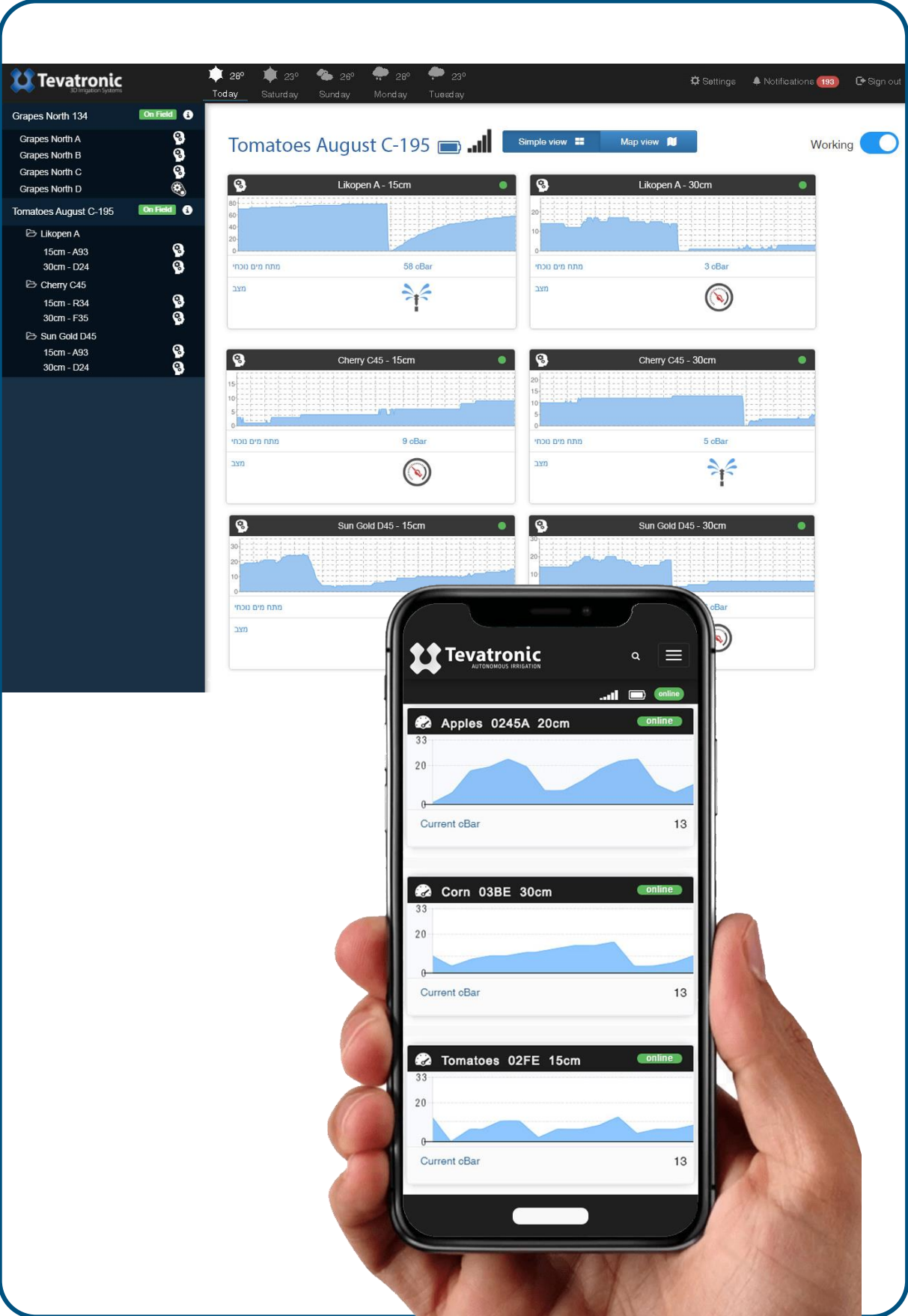
WIRELESS SENSORS



IRRIGATION CONTROL



CELLULAR GATEWAY




ONLINE GUI


PROVEN & MATURED TECHNOLOGY


-39%  

+29% 



-32% 

+4% 



-75% 

+7% 



-20% 

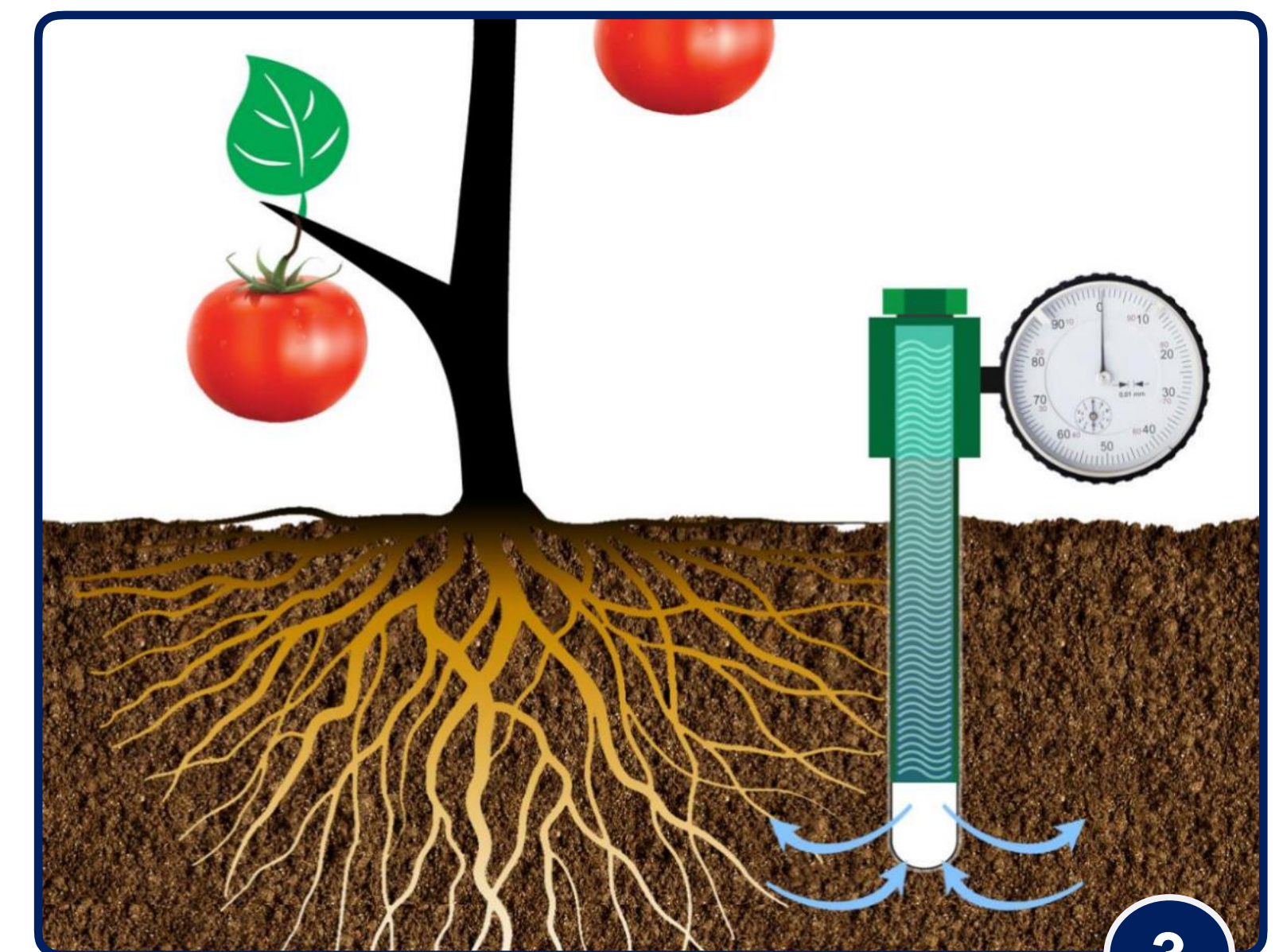
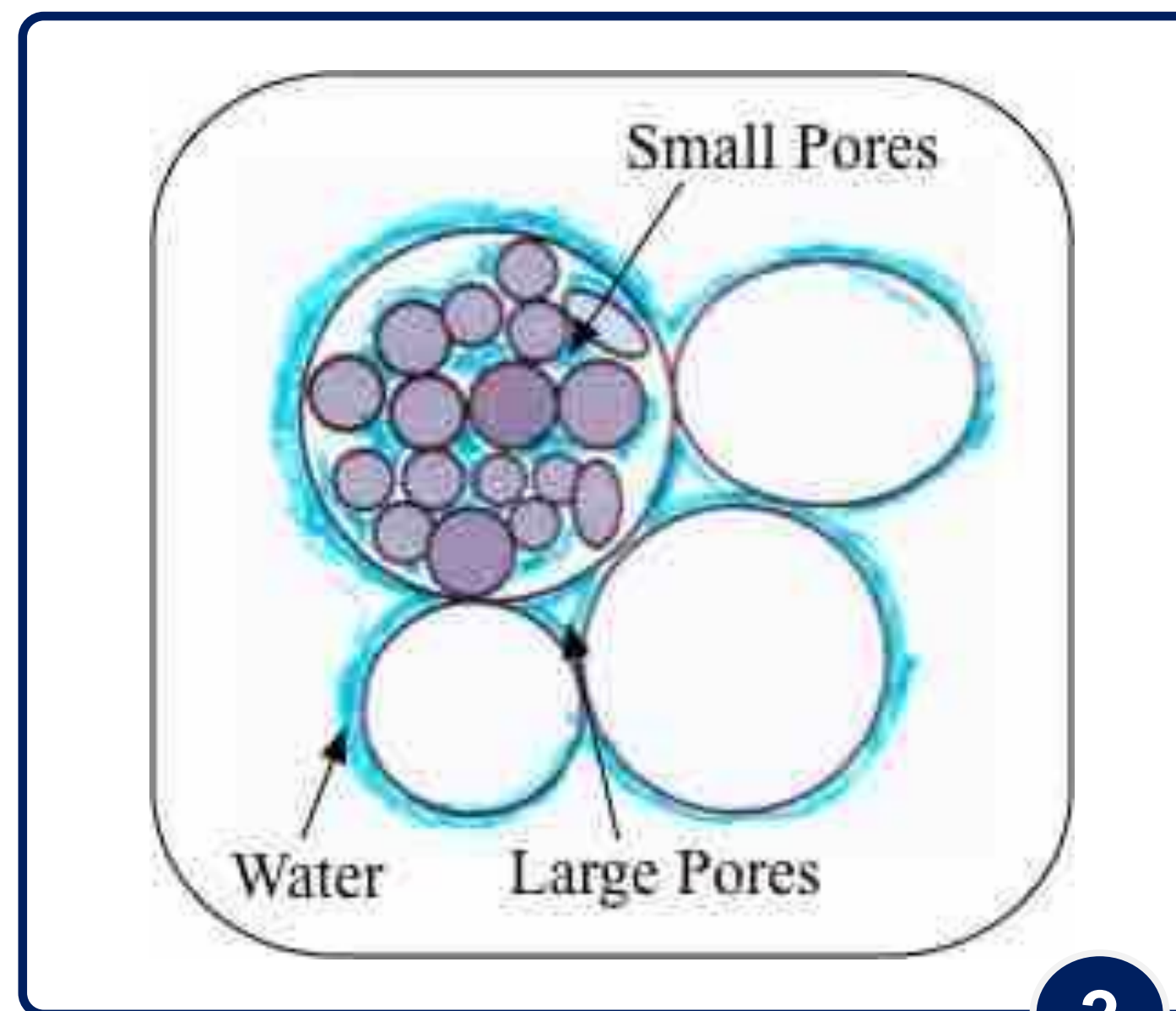
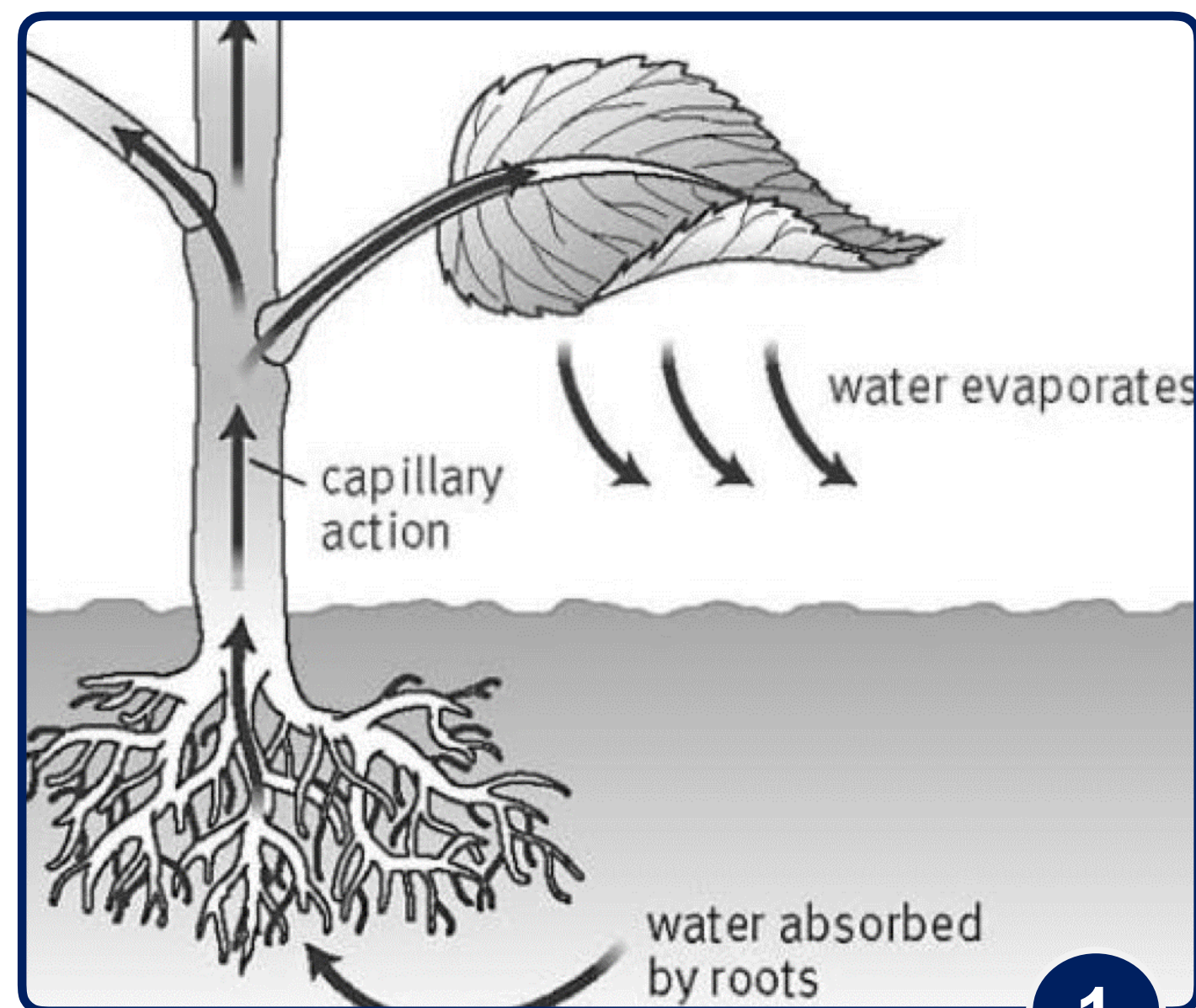
+1% 



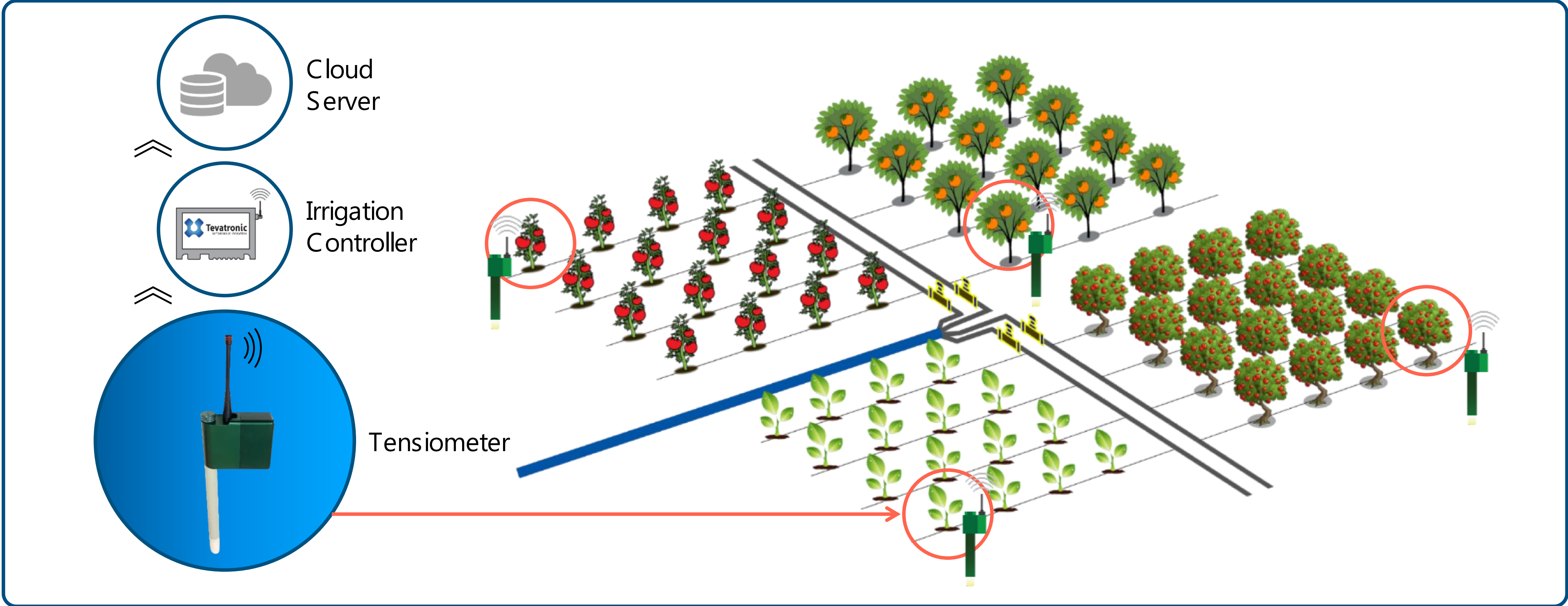
TENSION & TENSIOMETER

To automate irrigation with feedback from field we must speak the plant's language.

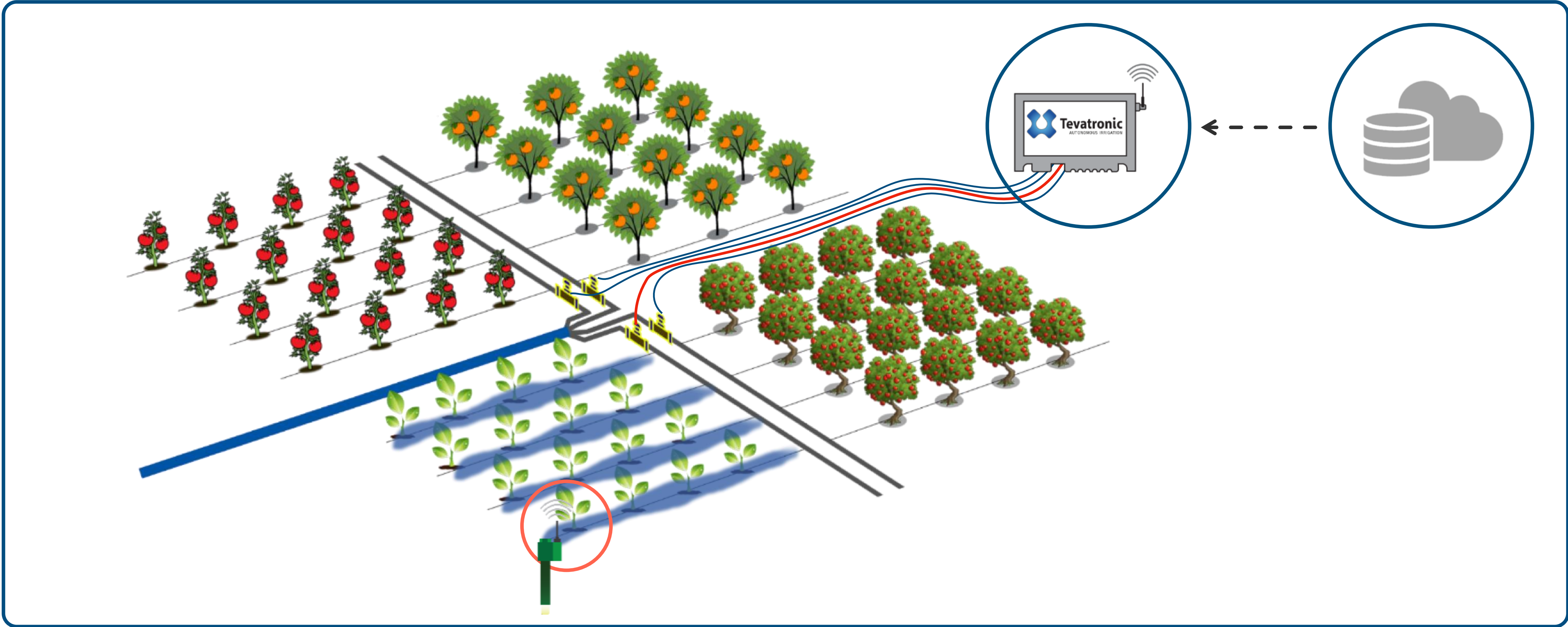
Soil water tension is the force necessary for plant roots to extract water from the soil.



IRRIGATION BASED ON SAMPLED PLANT



IRRIGATION BASED ON SAMPLED PLANT



CONTROL VIA PC OR SMARTPHONE

Tevatronic
3D Irrigation Systems

- Grapes North 134 On Field
- Grapes North A
- Grapes North B
- Grapes North C
- Grapes North D
- Tomatoes August C-195 On Field
- Likopen A
 - 15cm - A93
 - 30cm - D24
- Cherry C45

Tevatronic
AUTONOMOUS IRRIGATION

- Apples 0245A 20cm online
Current cBar: 13
- Corn 03BE 30cm online
Current cBar: 13
- Tomatoes 02FE 15cm online
Current cBar: 13

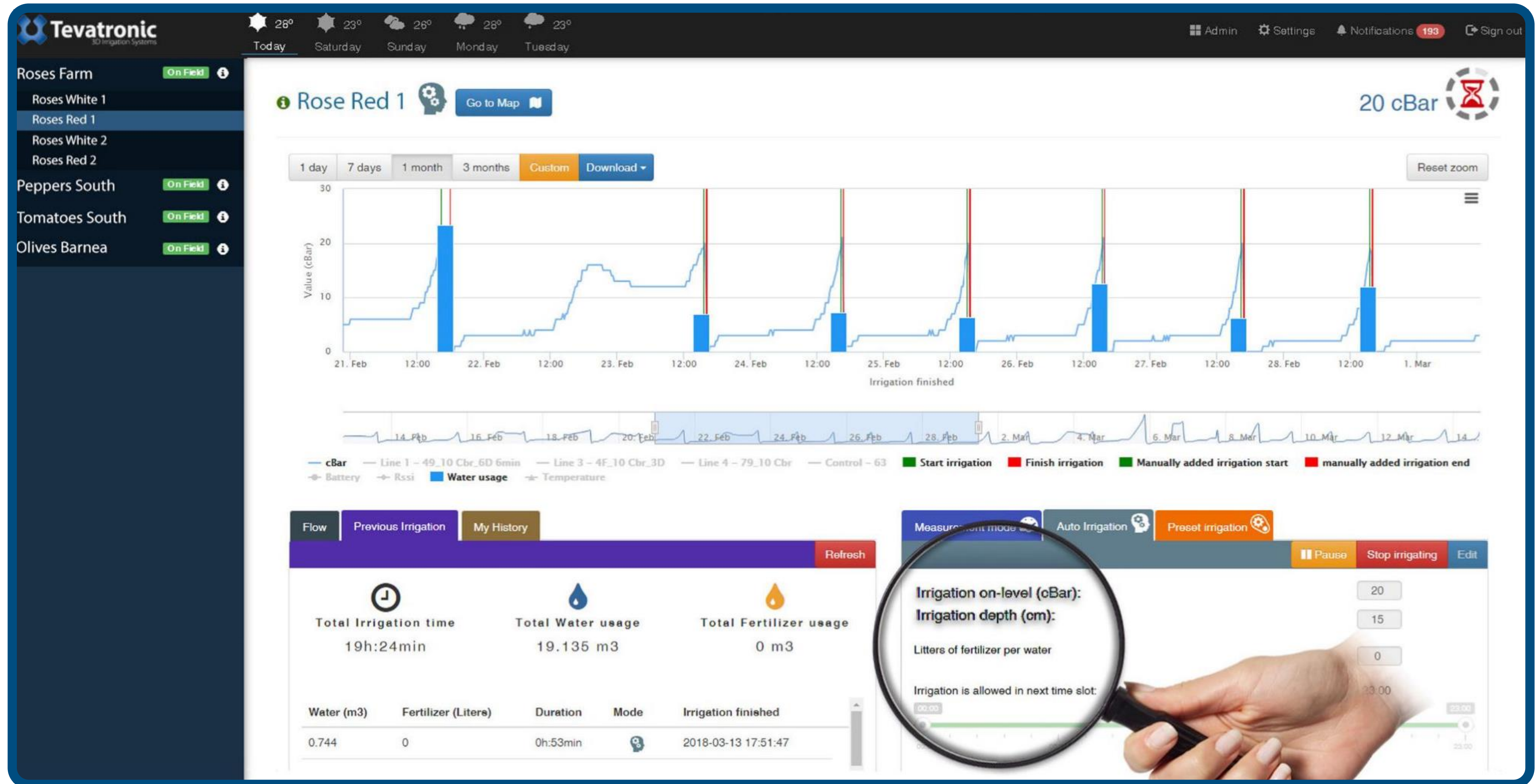
Tevatronic
3D Irrigation Systems

28° Today 23° Saturday 26° Sunday 28° Monday 23° Tuesday

Tomatoes August C-195 Simple view Map view Working

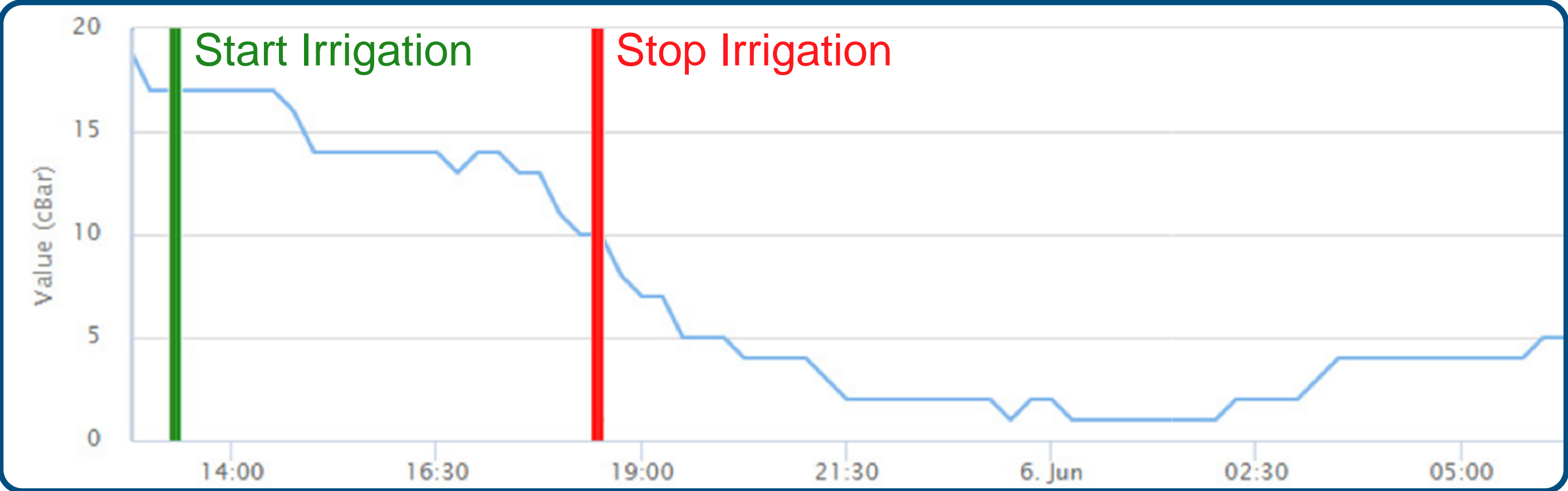
Sensor Name	Depth	Current cBar	Status
Likopen A	15cm	58 cBar	Working
Likopen A	30cm	3 cBar	Working
Cherry C45	15cm	9 cBar	Working
Cherry C45	30cm	5 cBar	Working
Sun Gold D45	15cm	15 cBar	Working
Sun Gold D45	30cm	6 cBar	Working

DYNAMIC & PRECISE IRRIGATION

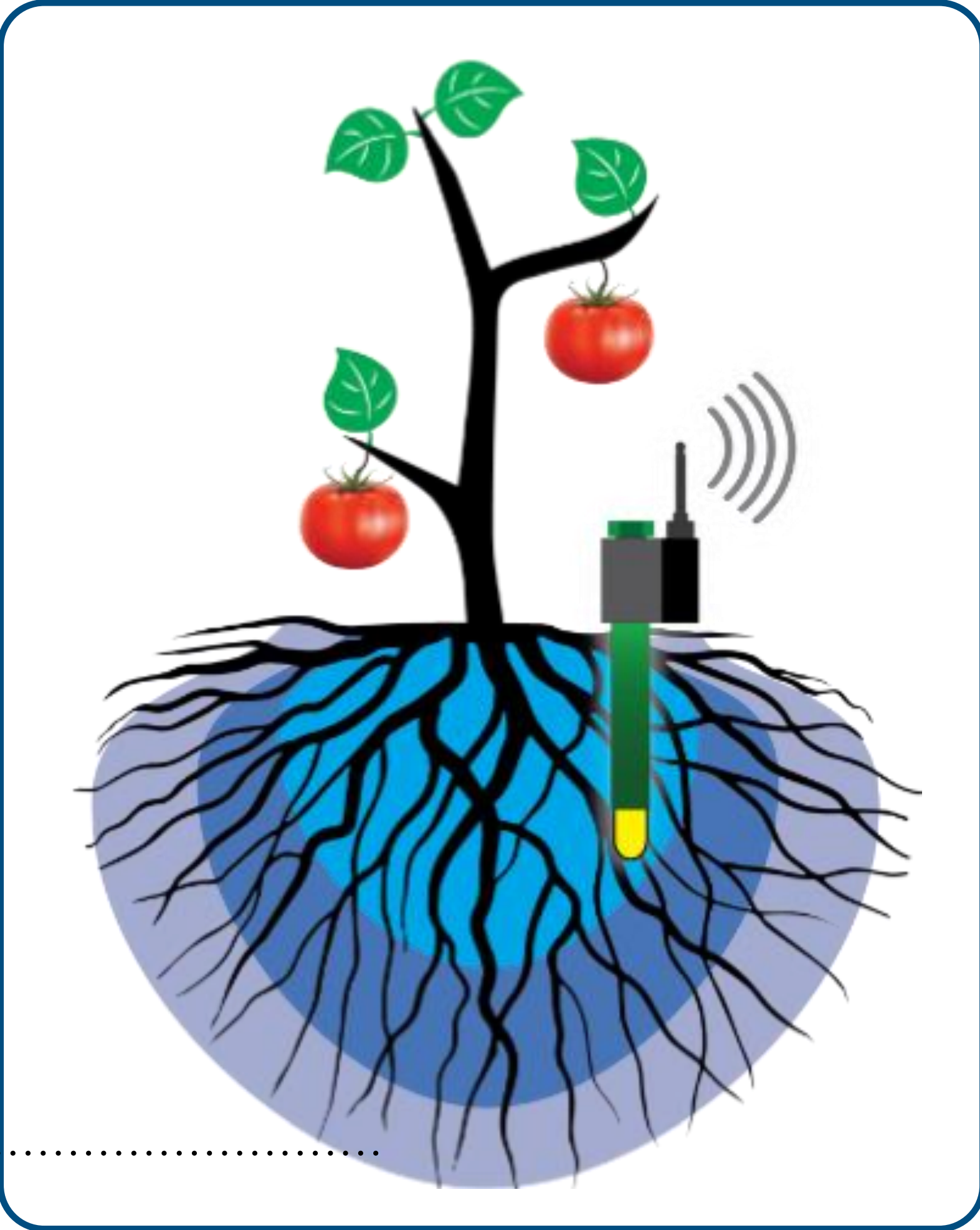


MATHEMATICAL ALGORITHM

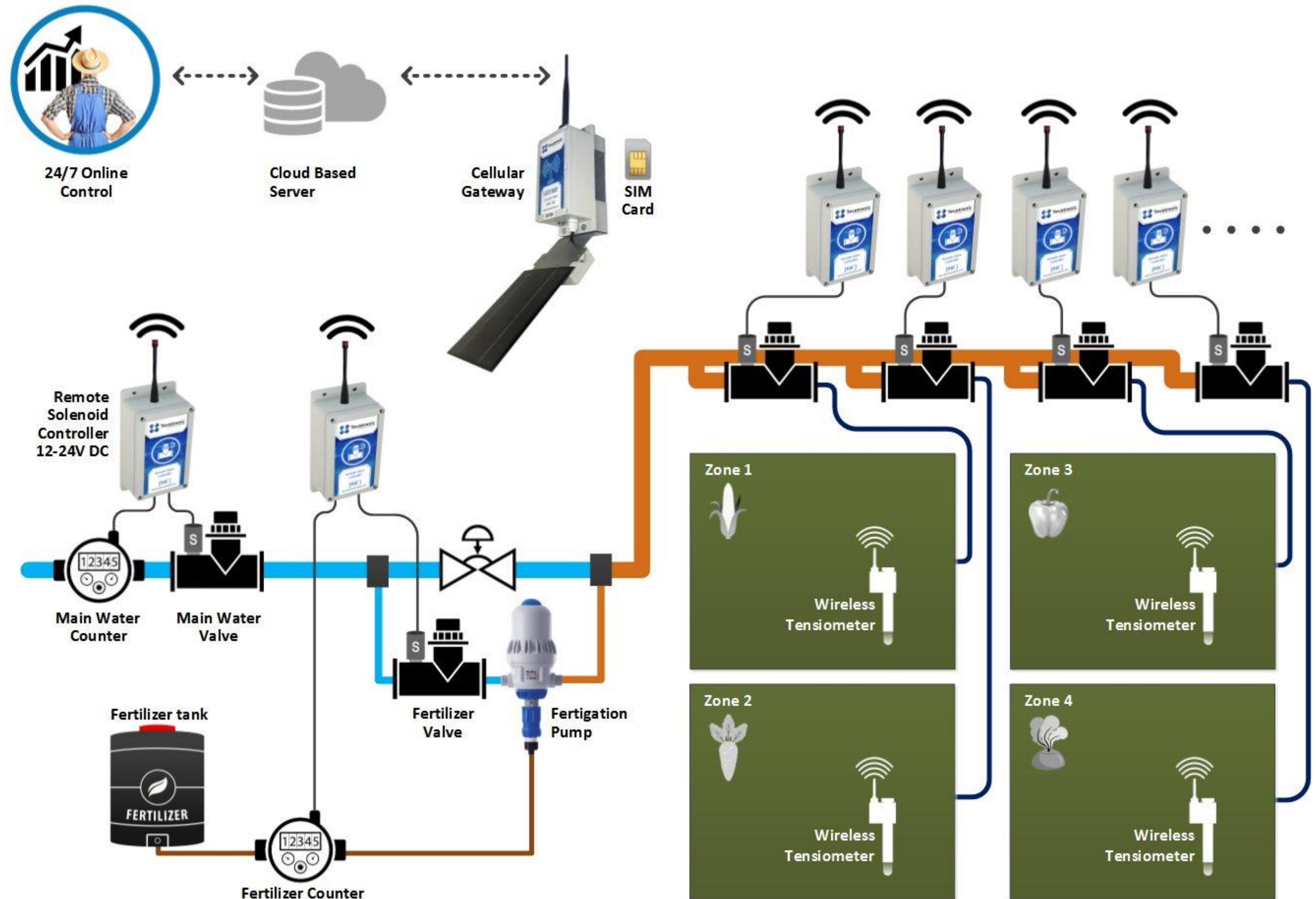
CONTROLLING WATER DEPTH INFILTRATION INTO THE SOIL USING UNIQUE MATHEMATICAL ALGORITHM



TARGETED DEPTH OF IRRIGATION



SYSTEM SCHEMATICS



MAIN ADVANTAGES

- Effective use of water and fertilizers
- Finding best practices for cultivating
- Does not require professional skills
- Minimal maintenance and simple installation regular batteries running for 2-3 years
- Turnkey solution (irrigation control and sensors)



LOOKING
FOR



Partners
Distributors
Investors



Thank You!



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